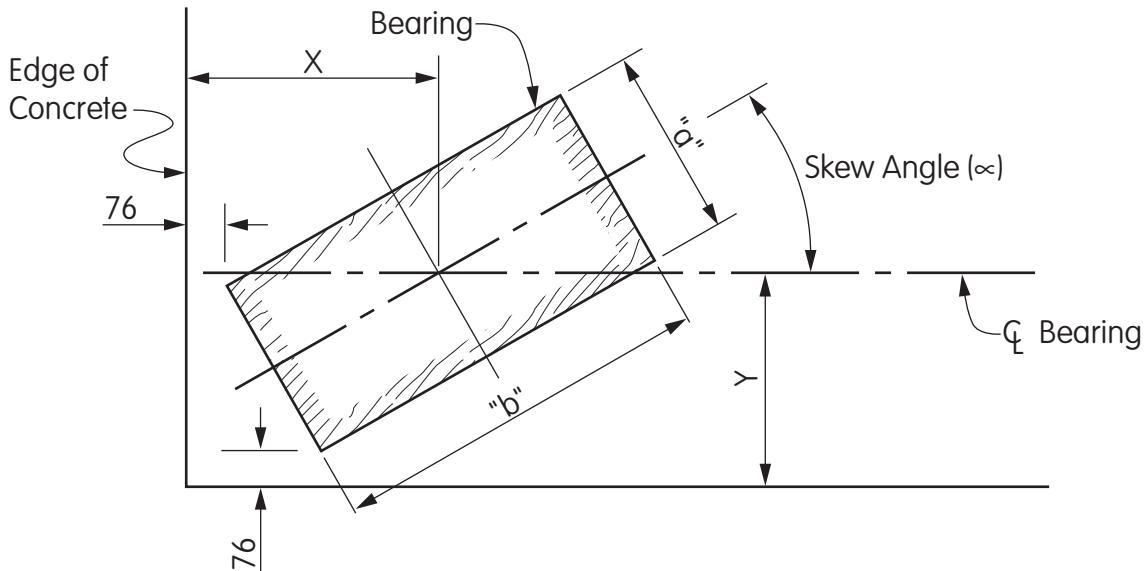


Edge Distance for Bearings



Formula

$$"Y" = 76 + \frac{"a"}{2} \cos \alpha - \frac{"b"}{2} \sin \alpha$$

$$"X" = 76 + \frac{"a"}{2} \sin \alpha + \frac{"b"}{2} \cos \alpha$$

Example

Given

$10 \infty 22$ Bearing ("a" = 254; "b" = 559)

Skew Angle (α) = $27^\circ 10' 30''$

Calculate

$$"Y" = 76 + \frac{254}{2} (0.88961574) + \frac{559}{2} (0.45670980)$$

$$= 76 + 113 + 128 = 317; \text{ use } 318 \text{ minimum}$$

$$"X" = 76 + \frac{254}{2} (0.45670680) + \frac{559}{2} (0.88961574)$$

$$= 76 + 58 + 253 = 383; \text{ use } 381 \text{ minimum}$$